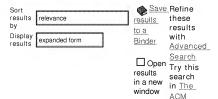
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1 Protecting representation with effect encapsulation

Yi Lu, John Potter January POP

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Representation exposure is a well-known problem in the object-oriented realm. Object encapsulation mechanisms have established a tradition for solving this problem based on a principle of reference containment. This paper proposes a novel type system ...

Keywords: effect systems, object encapsulation, ownership types, representation exposure, types

Protecting representation with effect encapsulation

Yi Lu, John Potter

January 2006 ACM SIGPLAN Notices, Volume 41 Issue 1 Publisher: ACM

Full text available: Pdf (312.88 KB)

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Representation exposure is a well-known problem in the object-oriented realm. Object encapsulation mechanisms have established a tradition for solving this problem based on a principle of reference containment. This paper proposes a novel type system ...

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Ownership confinement ensures representation independence for object-oriented

programs

Anindya Banerjee, David A. Naumann November

Journal of the ACM (JACM). Volume 52 Issue 6

2005

Publisher: ACM

Full text available: Ted (664.37

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Representation independence formally characterizes the encapsulation provided by language constructs for data abstraction and justifies reasoning by simulation. Representation independence has been shown for a variety of languages and constructs but ...

Keywords: Alias control, confinement, data refinement, relational parametricity, simulation

PolyTOIL: A type-safe polymorphic object-oriented language

Kim B. Bruce, Angela Schuett, Robert van Gent, Adrian Fiech March

ACM Transactions on Programming Languages and Systems 2003

(TOPLAS), Volume 25 Issue 2

Publisher: ACM

Full text available: (820.12

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Bibliometrics: Downloads (6 Weeks): 5. Downloads (12 Months): 48. Citation Count: 5.

PolyTOIL is a new statically typed polymorphic object-oriented programming language that is provably typesafe. By separating the definitions of subtyping and inheritance, providing a name for the type of self, and carefully defining the typechecking ...

Keywords: Matching, hash type

A machine-checked model for a Java-like language, virtual machine, and



Gerwin Klein, Tobias Nipkow

ACM Transactions on Programming Languages and Systems (TOPLAS), 2006 Volume 28 Issue 4

Publisher: ACM

Full text available: Fdf (2.68 MB)

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We introduce Jinja, a Java-like programming language with a formal semantics designed to exhibit core features of the Java language architecture. Jinja is a compromise between the realism of the language and the tractability and clarity of its formal ...

Keywords: Java, operational semantics, theorem proving

A history of Haskell: being lazy with class

Paul Hudak, John Hughes, Simon Peyton Jones, Philip Wadler

June HOPL III: Proceedings of the third ACM SIGPLAN conference on History of

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Publisher: ACM

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This paper describes the history of Haskell, including its genesis and principles, technical contributions, implementations and tools, and applications and impact.

Communications of the ACM: Volume 51 Issue 8

issue Volume 51 Issue 8

2008

Publisher: ACM

Full text available: Digital Edition, Pdf (6.85 MB)

Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 1545. Downloads (12 Months): 1545. Citation Count: 0

Component nextgen: a sound and expressive component framework for java

James Sasitorn, Robert Cartwright

October 2007 ACM SIGPLAN Notices, Volume 42 Issue 10

Publisher: ACM

Full text available: Pdf (367.92

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19. Downloads (12 Months): 149. Citation Count: 0

Developing a general component system for a statically typed, object-oriented language is a challenging design problem for two reasons. First, mutually recursive references across components are common in object-oriented programs-an issue that has proven ...

Keywords: components, custom class loader, first-class generics, java implementation, modules, signatures

Component nextgen: a sound and expressive component framework for java



James Sasitorn, Robert Cartwright

OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on October 2007 Object oriented programming systems and applications

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